



SEQUENCE LISTING

<110> Pavlakis, George N.
Nappi, Filomena
The Government of the United States
as represented by the Secretary of
The Department of Health and Human Services

<120> Novel Post-Transcriptional Regulatory Elements and Uses
Thereof

<130> 015280-352100US

<140> US 09/673,716
<141> 2001-02-26

<150> US 60/086,487
<151> 1998-05-22

<150> WO PCT/US99/11082
<151> 1999-05-18

<160> 6

<170> PatentIn Ver. 2.0

<210> 1
<211> 231
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:core
post-transcriptional regulatory element (PRE)
designated "fragment B"

<400> 1
gtgggggtgcg aggctaagca ctgcacagag gatagcttgc tgttggcatc ctgtggaagg 60
cacgtctgat tgcatagaagg ttcagtgtcc tagttccctt cccccaggaa aaacgacacg 120
ggagctggcc aagacctctc tgggtgatga gcctaagggg tggttttgtg tagggccctt 180
atgcttgcac actgggggatc agacctctac cttcaccatc gaggcttgct t 231

<210> 2
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:illustrative
primer oligonucleotide complementary to 3' thirty
nucleic acids of SEQ ID NO:1

<400> 2
aagcaagcct catgggtgaa ggtagaggac

<210> 3
<211> 30
<212> DNA
<213> Artificial Sequence

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<220>

<223> Description of Artificial Sequence:illustrative
primer oligonucleotide incorporating the 5' thirty
nucleic acids of SEQ ID NO:1

<400> 3

gtggggtgcg aggctaagca ctgcacagag

30

<210> 4

<211> 391

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:"rescuing"
post-transcriptional regulatory element (PRE)
insert designated "PRE7"

<400> 4

ctttcgccat ggtagcatag gcttttgctg cagtggaggc gggacaatct cctcagattc 60
ggtttgccgc tctaaaagaa attatgctgc gttatgccgt ggggtgagag gctaagcact 120
gcacagagga tagcttgctg ttggcatcct gtggaaggca cgtctgattg catgaagggt 180
cagtgtccta gttcccttcc cccaggaaaa acgacacggg agctggccaa gacctctctg 240
ggtgatgagc ctaagggatg gttttgtgta gggcccctat gcttgacacac tggggatcag 300
acctctacct tcacccatga ggcttgcttg cagcaattaa gatctggcca taggttaatt 360
aacatcctgg ccttttgatg cacctgcccac a 391

<210> 5

<211> 226

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:functional
fragment named "M4"

<400> 5

ccgtgggggtg cgaggctaag cactgcacag aggatagctt gctggttgga tctgtggaa 60
ggcacgtctg attgcatgaa gggtcagtgt cctagtcccc ttccccaggg aaaaacgaca 120
cgaggagctgg ccaagacctc tctgggtgat gagcctaagg gatgggtttg ttaggggcc 180
ctatgcttgc aactgggga tcagacctct accttcaccc atgagg 226

<210> 6

<211> 100

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PRE sequence
having about 83% sequence identity to SEQ ID NO:1

<220>

<221> modified_base

<222> (1)..(100)

<223> n = any nucleotide

<400> 6

aggagtggca aggctaagcn actgcacagg agaggntctg cggmntataa cgactttctc 60
ctgggagata agtcatcttg catgaagggt ctatgntcat 100

Q1
cont